

Puppet Procedure to run Fermi2AWS Export

1. For a Paravirtual image on AWS: (Copy these for other images and rename them)

- vi /etc/puppet/modules/awsexport/manifests/gcso_sl6_pv.pp
- change parameters to your credentials.
- *Note: Obtain HVM worker instance id from aws console (caws_worker_instance_id => 'i-7788c97c',)

- #contains parameters for the gcso_sl6 PV image conversion
- awsexport::awsexport_params {'gcso_sl6_pv':
- cvm_file_location => '/opt/gcso/awsexport',
- cvm_image_location => 'oneadmin@fcl008:/var/lib/one/local/images/55c42a4cc7f87ea3390bc2bef14212c5',
- ckernel_ver => '2.6.32-431.23.3.el6.x86_64',
- cvm_number => '103',
- cvm_name => 'gcso_sl6',
- cvm_owner => 'your Fermi username',
- caws_image_name => 'GCSO_SL6_PV',
- caws_image_owner => 'gcso',
- caws_instance => 'm3.medium',
- caws_key => 'add aws owner key here',
- caws_secret_key => 'add aws secret owner key here',
- caws_pem_name => 'gcso.pem',
- caws_worker_instance_id => 'i-7788c97c',
- caws_owner_keypair_name => 'gcso',
- caws_eph_mount => '/ ephemeral_mount_dir or none',
- }

2. For a HVM image on AWS: (Copy these for other images and rename them)

- vi /etc/puppet/modules/awsexport/manifests/gcso_sl6_hvm.pp
- change parameters to your credentials.
- *Note: DO NOT CHANGE (caws_worker_instance_id => 'hvm') leave as 'hvm' to create a worker vm on aws

- #contains parameters for the gcso_sl6 HVM image conversion
- awsexport::awsexport_params {'gcso_sl6_hvm':
- cvm_file_location => '/opt/gcso/awsexport',
- cvm_image_location => 'oneadmin@fcl008:/var/lib/one/local/images/55c42a4cc7f87ea3390bc2bef14212c5',
- ckernel_ver => '2.6.32-431.23.3.el6.x86_64',
- cvm_number => '103',
- cvm_name => 'gcso_sl6',
- cvm_owner => 'your Fermi username ',
- caws_image_name => 'GCSO_SL6_HVM',
- caws_image_owner => 'gcso',
- caws_instance => 'm3.medium',
- caws_key => 'add aws owner key here',
- caws_secret_key => 'add aws secret owner key here',
- caws_pem_name => 'gcso.pem',
- caws_worker_instance_id => 'hvm',
- caws_owner_keypair_name => 'gcso',
- caws_eph_mount => '/ephemeral_mount_dir or none',
- }

3. To setup Crontab jobs:

- vi /etc/puppet/modules/awsexport/manifests/awsexport_params.pp
- Change MAILTO=username@fnal.gov to your email address to receive cron job completion emails.
- Change the runtime schedule to what you want:
- cron {'awsexport':

 minute => '55',

 hour => '10',

 monthday => '14',

 month => '8',

 weekday => '*'}

4. Run Puppet apply to set crontab job for AWS HVM worker:

- run 'puppet apply /etc/puppet/modules/awsexport/manifests/gcso_sl6_hvm.pp'
- wait for cron completion email (in about 1.5 hours for a HVM Conversion)
- detail job log is located at: /opt/gcso/awsexport/aws_image_convert.log
- obtain aws console HVM worker node 'instance id' for subsequent PV conversion runs.
- *Note: this HVM worker node is needed only once. It can be run again for other images, if you want to provide HVM AMI's and instances on AWS.

5. Run Puppet apply to set crontab job for AWS PV Images:

- run 'puppet apply /etc/puppet/modules/awsexport/manifests/gcso_sl6_pv.pp'
- wait for cron completion email (in about 55 minutes for a PV Conversion)
- detail job log is located at: /opt/gcso/awsexport/aws_image_convert.log
- check aws console to see PV AMI's and instances.
- *Note: this job can run, as needed, to obtain a latest AWS image. The AWS AMI's and instances are time-stamped to identify the latest version.

